

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO
KIMATERIALS, INC.

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of
sand & gravel in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 84 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Lincoln	01	48N	02E	84	0	84	North Site	0299

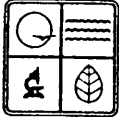
This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 26th day of May 2004



DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0228
Effective Date 05/26/2004
Expiration Date 05/17/2005
MO 780-1122 (6-95)



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

RECEIVED

MAY 10 2004

MISSOURI LAND RECLAMATION COMMISSION

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL Kimaterials, Inc.		DATE 05-01-04	
ADDRESS P.O. Box 235	CITY Old Monroe	STATE MO	ZIP CODE 63369
CONTACT PERSON Brian J. Viehmann		TELEPHONE NUMBER 636-665-5200	

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. Kimaterials, Site #1	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 300
2.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$

TOTAL SITE FEE \longrightarrow \$ 300

2. Acreage Fee \$5 X 80 number of acres bonded \$ 400

3. Annual Permit Fee \$ 500

4. Total Fee (Add totals from 1, 2 and 3) \$1,200

NOTE: If Total Fee exceeds \$2,500.00 then pay only \$ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee \$ 300

SIGNATURE OF APPLICANT <i>Brian J. Viehmann</i>		TITLE Treasurer	DATE 05-01-04
Appeared before me this <u>1st</u> day of <u>May</u> , 20 <u>04</u> , <u>Brian J. Viehmann</u> to me personally known, who executed the above as their free acts and deeds.			
NOTARY PUBLIC EMBOSSEER SEAL	STATE OF <u>Missouri</u>	COUNTY (OR CITY OF ST. LOUIS) <u>ST. LOUIS COUNTY</u>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>1st</u> DAY OF <u>May</u> YEAR <u>2004</u>		
	NOTARY PUBLIC SIGNATURE <i>Kent D. Thies</i>	MY COMMISSION EXPIRES <u>April 15, 2008</u>	USE RUBBER STAMP IN CLEAR AREA BELOW. "NOTARY SEAL" Kent D. Thies, Notary Public St. Louis County, Missouri My Comm. # <u> </u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>KENT D. THIES</u>		
FOR DEPARTMENT USE ONLY: APPROVED BY <i>[Signature]</i>		DATE APPROVED <u>5-14-04</u>	PERMIT NUMBER <u>0228</u> EXPIRATION DATE <u>5-17-05</u>



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

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SEP 2 2003

To be completed for each separate area of disturbance associated with mining operations.

MISSOURI LAND
RECLAMATION COMMISSION

SITE NAME OR NUMBER Kimaterials		PERMIT NUMBER 228	
COMPANY NAME Kimaterials, Inc.			
COUNTY Lincoln	1/4 SECTION	SECTION One	
TOWNSHIP 48 North	RANGE 2 East	ACRES 95	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Sand/Gravel		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) 300,000	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) David J. Bangert		
ADDRESS 14580 Missouri Bottom Road		
CITY Bridgeton	STATE Missouri	ZIP CODE 63044
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT January 1, 1994
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED

SEP 2 2003

To be completed for each separate area of disturbance associated with mining operations.

MISSOURI LAND
RECLAMATION COMMISSION

SITE NAME OR NUMBER Kimaterials		PERMIT NUMBER 228	
COMPANY NAME Kimaterials, Inc.			
COUNTY Lincoln	1/4 SECTION	SECTION One	
TOWNSHIP 48 North	RANGE 2 East	ACRES 125 127 ^{4' per phone call} 640	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Sand/Gravel		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) 300,000	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Kimaterials, Inc.		
ADDRESS P.O. Box 235		
CITY Old Monroe	STATE MO	ZIP CODE 63369
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input checked="" type="checkbox"/> OTHER (DESCRIBE): <u>Company Owned Property</u>		DATE OF AGREEMENT January 1, 1963
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

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P.O. BOX 176
JEFFERSON CITY, MO 65102

MISSOURI LAND
RECLAMATION COMMISSION

COMPANY NAME

Kimaterials, Inc

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: May 17, 2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This land is Mississippi River bottom land which is very flat and subject to flooding such as 1993 and 1995. Part of the mine is not farmable due to the sand and gravel deposit at or near the surface of the land. There is up to one foot of topsoil on the southern part of the property, this will be set aside for future use. Some areas have remaining clay that will be used to raise low areas and for fill material.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0 to 12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Over the permit area there is a layer of topsoil and overburden material. The topsoil ranges from 6 inches to 12 inches in depth. The material will be removed with a scraper and stockpiled in an area on the west side of the property. The remaining overburden will be stored around the perimeter of the property or sold as fill material.

Since the final development will be left as a water impoundment adequate topsoil will be saved to cover remaining bank area. Excess topsoil will be stored around the property or sold for fill material.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The topsoil will be removed with a scraper and stockpiled. The stockpiles will be seeded to prevent erosion. This area is located on the west side of the property.

PERMIT NO.

228

SITE NUMBER/NAME

Kimaterials, Inc Site 1

B. SOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The overburden will be placed around the pit for berm material. The outside areas will be sloped to a 3:1 grade and seeded to prevent erosion. Excess material will be sold for fill material.

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MISSOURI LAND
RECLAMATION COMMISSION**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

All dredging is performed with a cutterhead dredge. Dredging will cover approximately 3 to 4 acres per year. The remaining area will be a water impoundment.

YES NO☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road?
(NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

PERMIT NO.

228

SITE NUMBER/NAME

Kimaterials, Inc Site #1

APR 15 2002

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
Grass/Legume	Stabilize banks	Spring

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Spring seeding will take place between March 15 and May 15. The area will be properly prepared and the seed mixture will be broadcast over the area. When available a tractor and a drill will be used to seed the area. Previously seeded areas will be overseeded in the spring as needed. If a late fall seeding is required, wheat will broadcast to reduce or prevent erosion.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Kentucky 31 Fescue	20		
Korean Lespedeza	8		
Red Clover	8		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
---------------------	---------------------	-----------------------------

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

N/A

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
N/A			

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

PERMIT NO.	SITE NUMBER/NAME
228	Kimaterials, Inc. Site #1

APR 15 2002

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND
RECLAMATION COMMISSION

The mined area will be left as a water impoundment. The lake is approximately 70 acres. The area will be surrounded by a berm sloped to a grade of 3:1. The water level is a few feet below ground level but changes with the ground water level from the Mississippi River. The area will be subject to periodic flooding.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**GRADING**

Grading will take place before an area is mined. A scraper will remove the topsoil and store in the proper locations. The remaining overburden will be removed and store in berms around the property or sold as fill material. All dredged areas will be graded after the ground has stabilized.

REPLACEMENT OF TOPSOIL

After an area has been dredged and the bank has stabilized, we will replace any topsoil needed to shape the bank. This work will be done 12 - 24 months after the dredging is completed. Noting that most of the remaining area will left as a water impoundment.

REVEGETATION

All overburden and topsoil material that is removed will be seeded during the next seeding period. All remaining shoreline seeding will be done after topsoil replacement and grading.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	4
Agricultural (pasture, cropland, and horticultural)	0
Development (residential, industrial, and recreational)	18
Water impoundments (for wildlife, agriculture, or development)	200

PERMIT NO.

228

SITE NUMBER/NAME

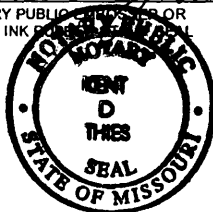
Kimaterials, Inc

APR 15 2002

By my signature, I attest to the following:

MISSOURI LAND
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Guan J. Vietmann</i>		TITLE Manager	DATE 3-25-2002
NOTARY PUBLIC - MISSOURI BLACK INK REQUIRED  KENT D. THIES NOTARY PUBLIC - STATE OF MISSOURI ST. LOUIS COUNTY	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) St. Louis County	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 25th DAY OF MARCH YEAR 2002		USE RUBBER STAMP IN CLEAR AREA BELOW.
	NOTARY PUBLIC SIGNATURE <i>Kent D. Thies</i>	MY COMMISSION EXPIRES 4-5-2004	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) KENT D. THIES		
APPROVED BY DIRECTOR'S REPRESENTATIVE <i>[Signature]</i>		DATE APPROVED 11-19-02	PERMIT NUMBER 228

Locator Map

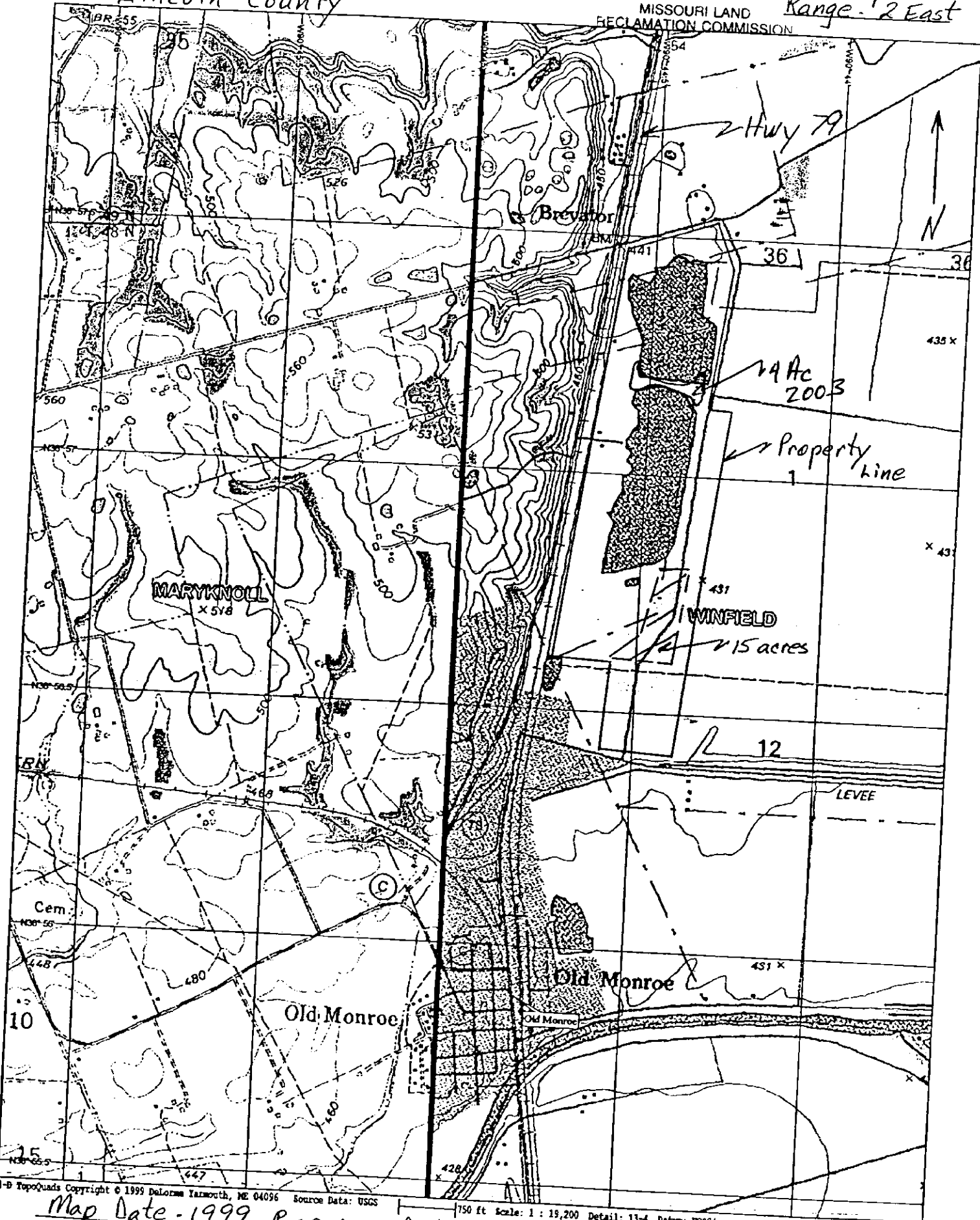
Kimaterials, Inc
Lincoln County

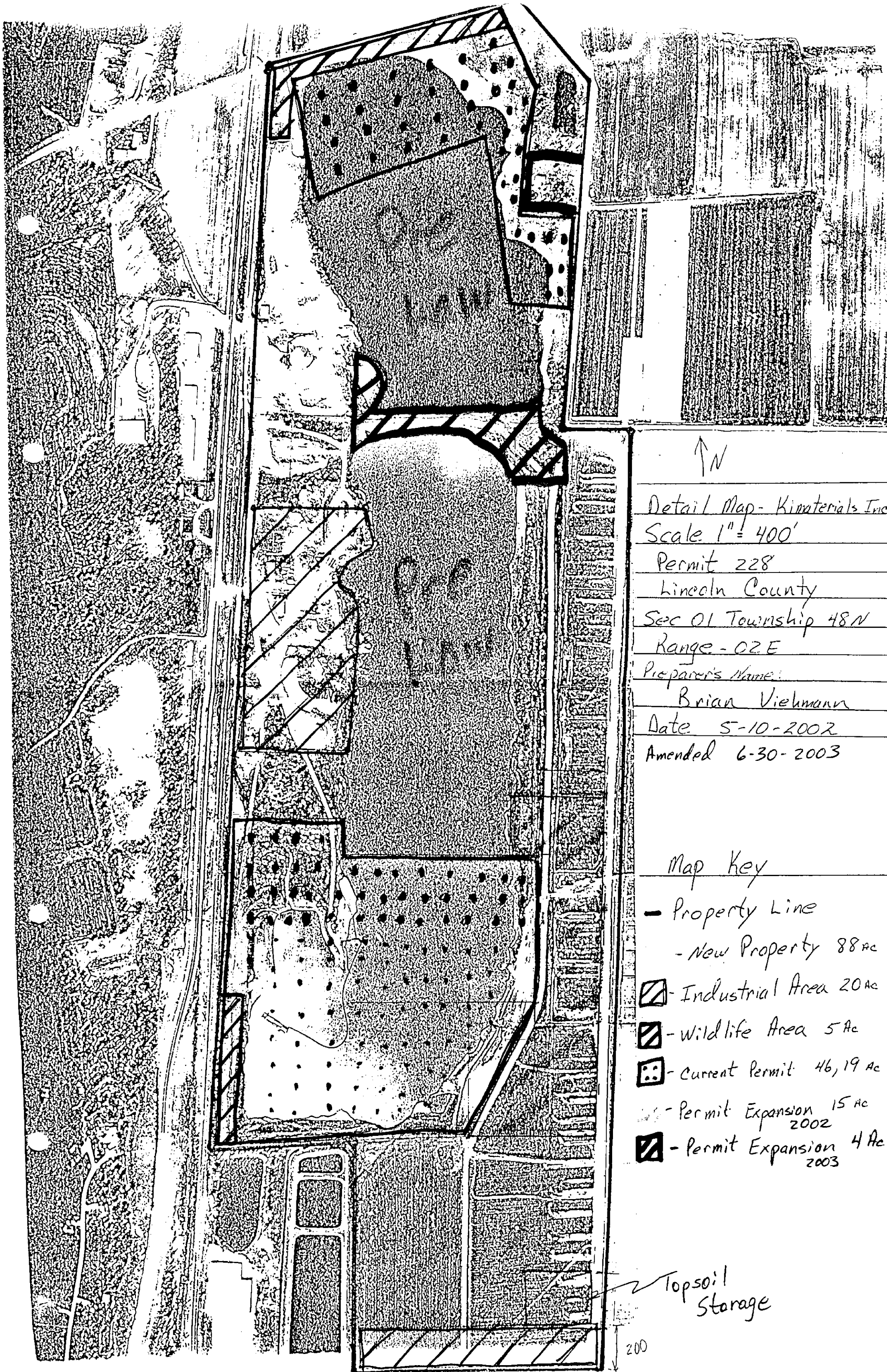
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JUL - 2003

section one
Township 48 N
Range 2 East

MISSOURI LAND
RECLAMATION COMMISSION





Detail Map - Kimmaterials Inc
Scale 1" = 400'
Permit 228
Lincoln County
Sec 01 Township 48N
Range - 02E
Preparer's Name:
Brian Viehmann
Date 5-10-2002
Amended 6-30-2003

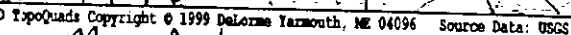
Map Key

- Property Line
- New Property 88 ac
- ▨ - Industrial Area 20 ac
- ▩ - Wildlife Area 5 ac
- ⬢ - Current Permit 46,19 ac
- ⋈ - Permit Expansion 15 ac 2002
- - Permit Expansion 4 ac 2003

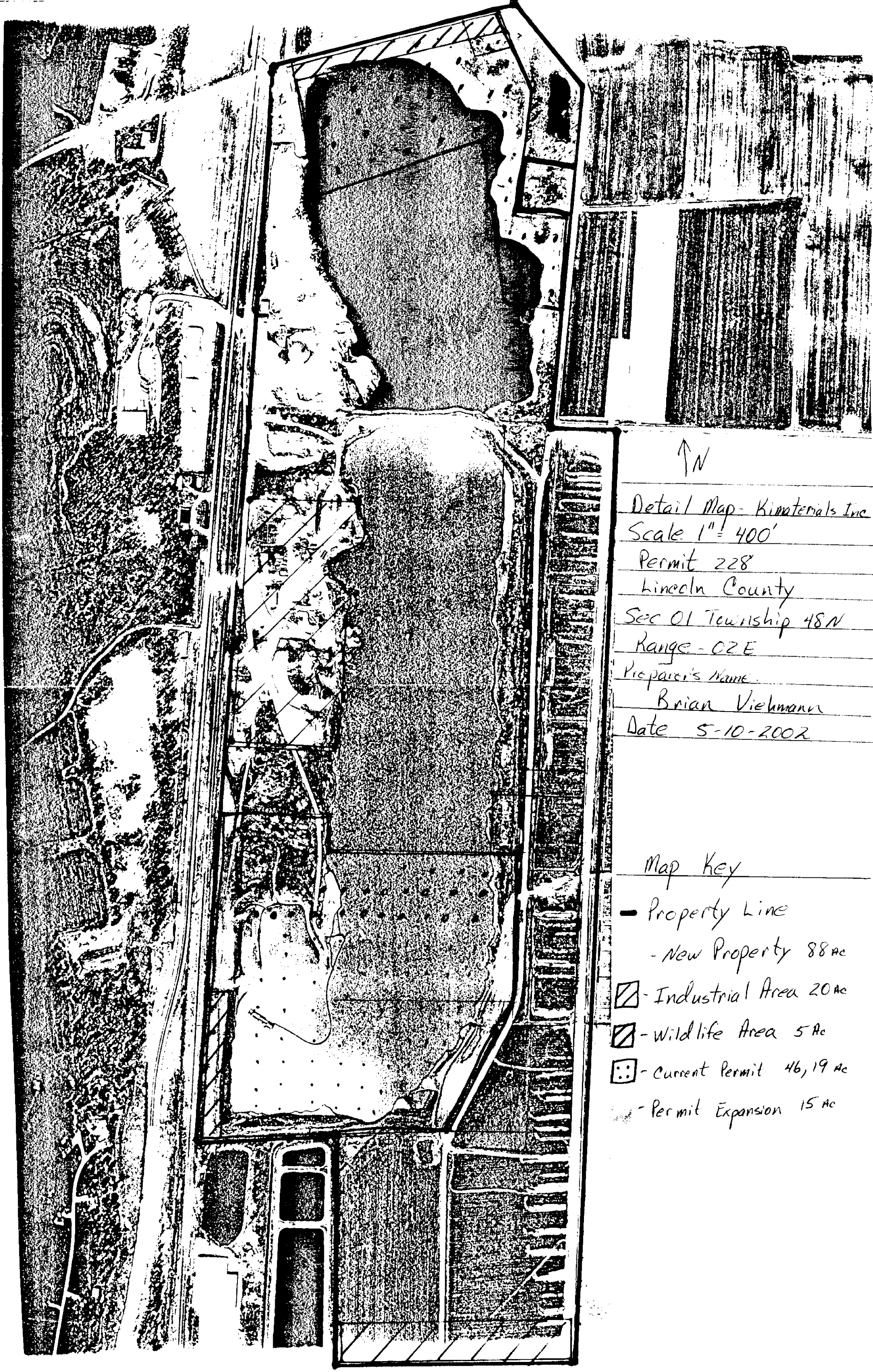
Topsoil Storage

200

APR 15 76



Map Date - 1999 Preparer - DeLorme 3D Topo Quads
Scale 1" = 1500'



↑N

Detail Map- Kimaterials Inc
Scale 1" = 400'

Permit 228

Lincoln County

Sec 01 Township 48N

Range - 02E

Preparer's Name

Brian Viehmann

Date 5-10-2002

Map Key

- Property Line

- New Property 88 ac

▨ - Industrial Area 20 ac

▨ - Wildlife Area 5 ac

▨ - Current Permit 46,19 ac

▨ - Permit Expansion 15 ac

Kimaterials, Inc

Permit 228

Lincoln County Section 01 Township 48N Range 2E

Detail Map
Part 2 North Plant

Prepared June 26, 2001
By Brian Viehmann

1:25
Scale

1 Acre Development

3 Acres Wildlife

15 Acres Water
(Remaining Area)

19 Acre Permit
Boundary

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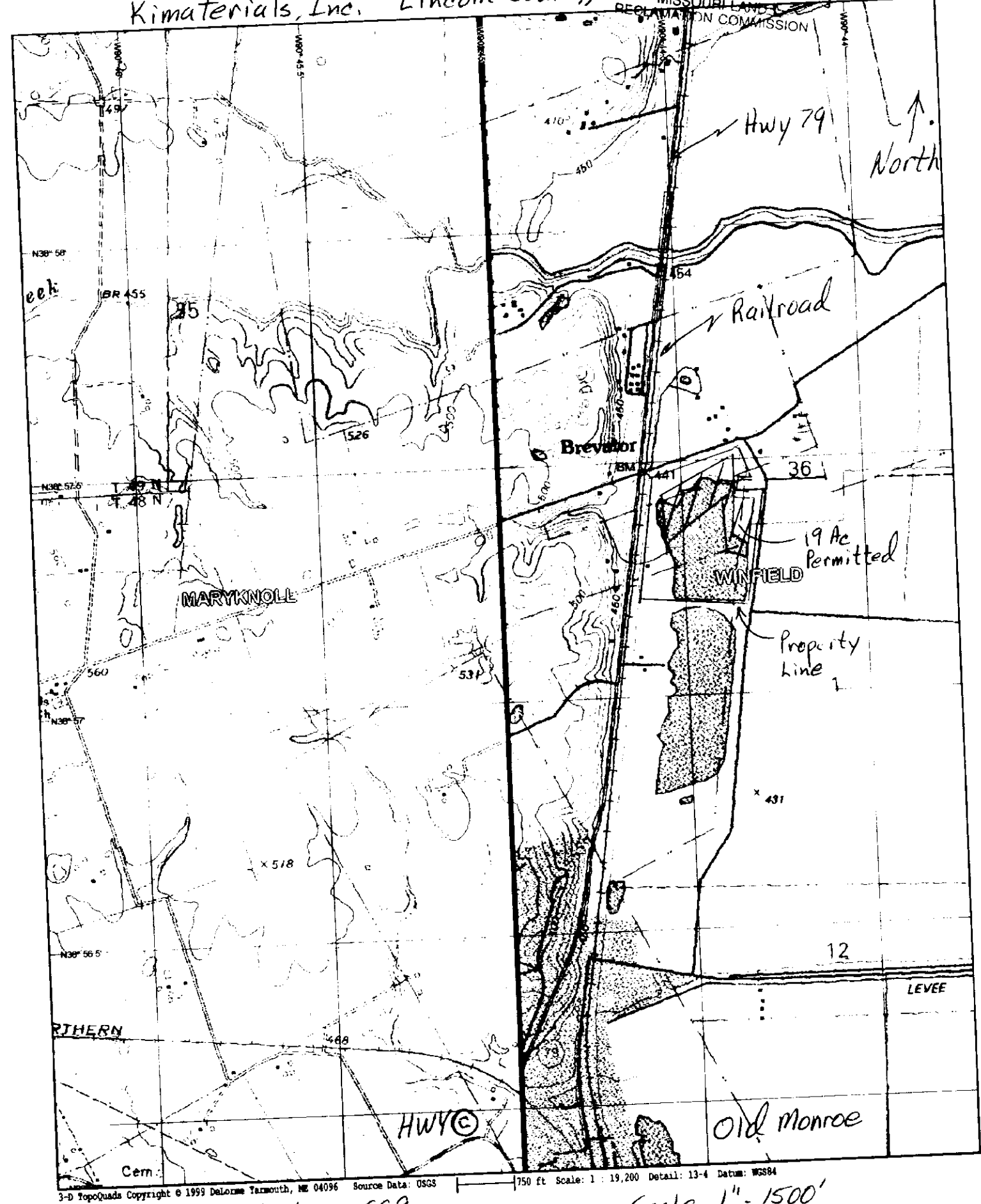
JUN 28 2001

MISSOURI LAND
RECLAMATION COMMISSION

Locator Map

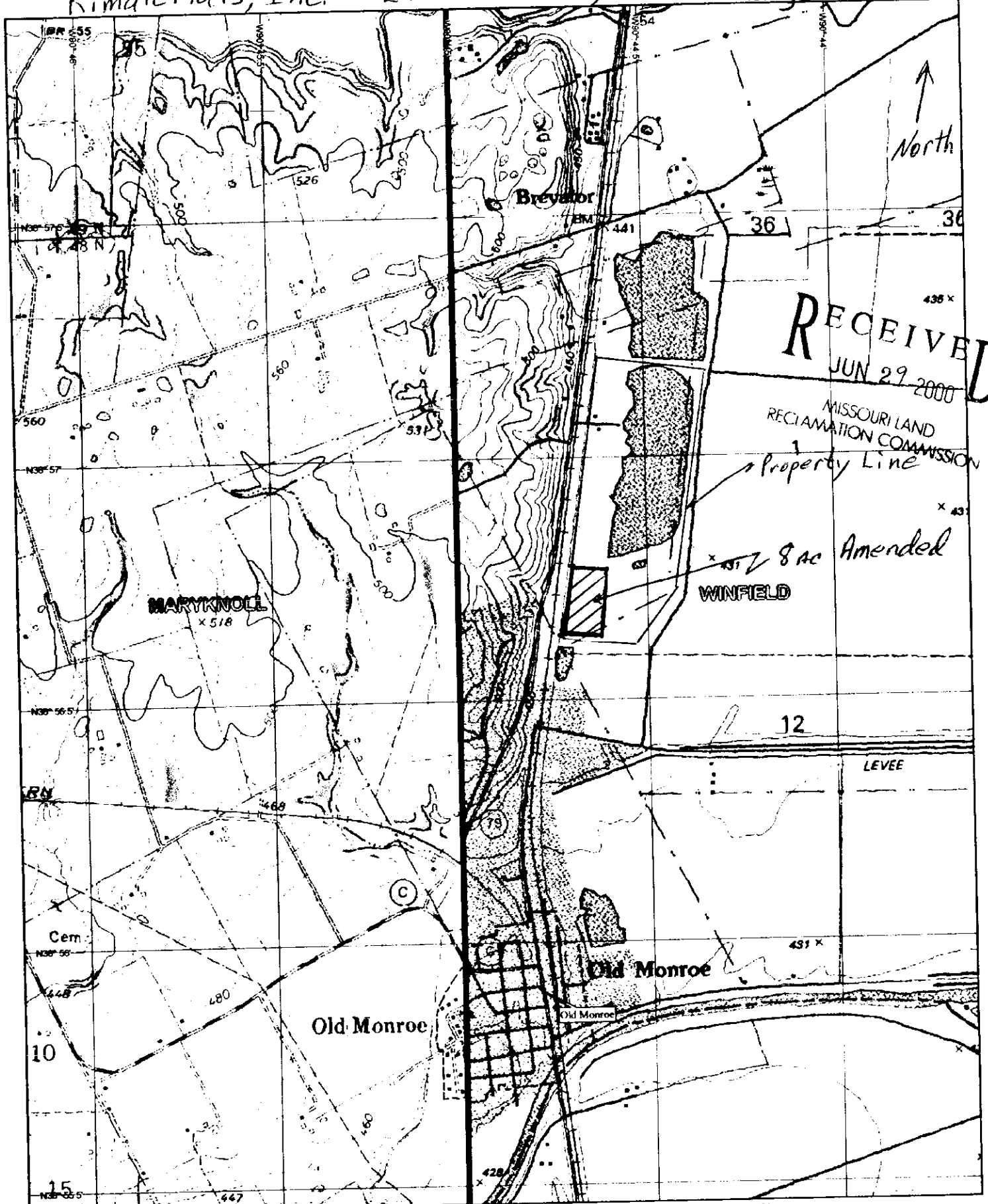
Kimaterials, Inc. Lincoln County, MO

Section 01
Township 48N
Range 2W



Map Date - 1999
By: DeLorme 3D TopoQuads

Locator Map
 Kimaterials, Inc. Lincoln County MO.
 Section - One
 Township - 4S
 Range - 2 East



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS

750 ft Scale: 1 : 19,200 Detail: 13-4 Datum: NGS84

Map Date - 1999
 Preparer - DeLorme 3D TopoQuads

Scale 1" = 1570'

Plants
Storage

Landowner
Dave Bangert
Kimaterials, Inc
Sec. 1 TWP. 48
Range 2 East Lincoln Co.
Map - 4/2000
Scale - 1" = 400'
6/20/2000
↑ North

Glacial
Sand Road

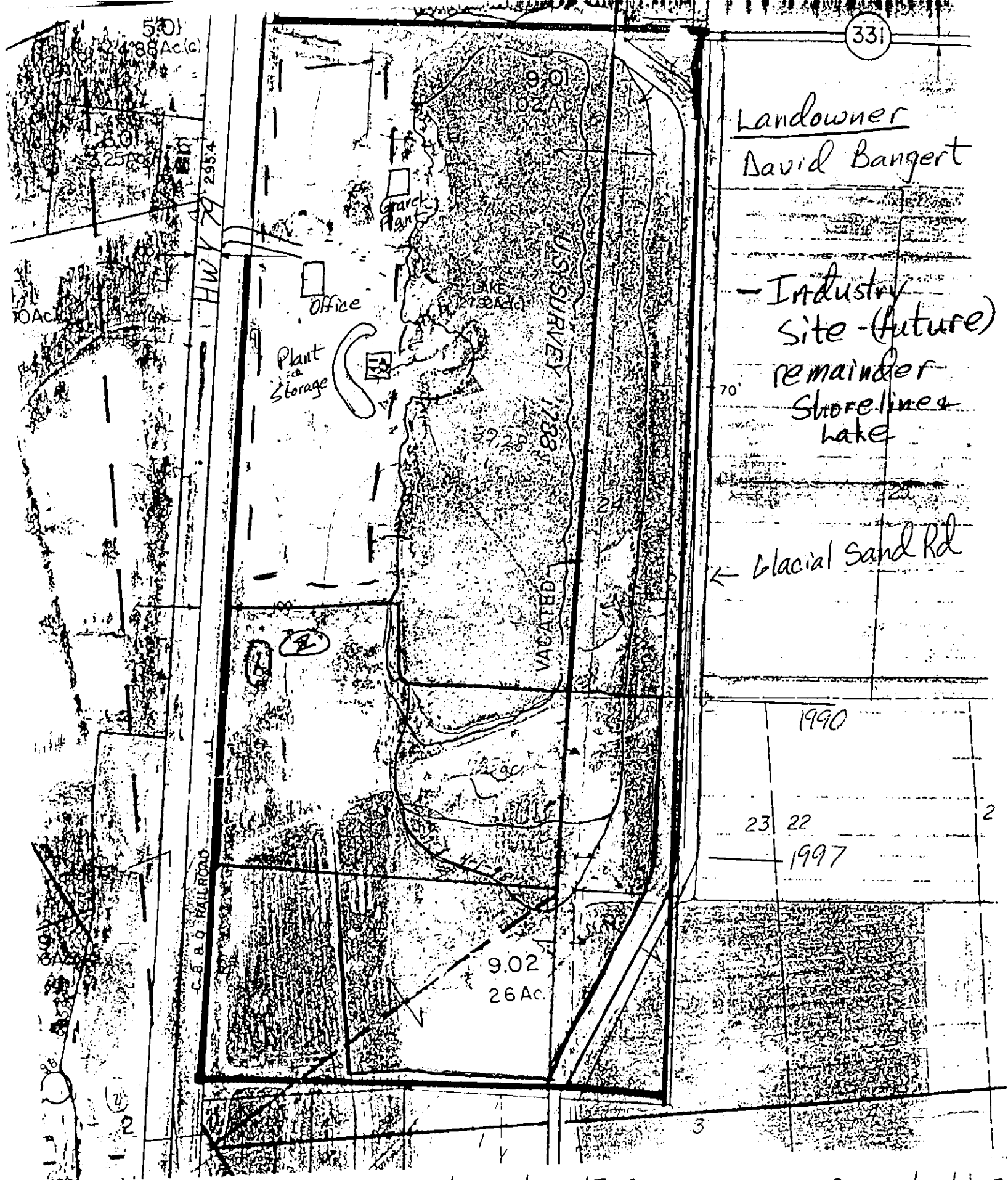
Property Line
— 38 ac permitted
IN 1998

8 ac Amended
6/20/2000

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JUN 29 2000

Detail Map

MISSOURI LAND
ACQUISITION COMMISSION



Landowner
David Bangert

- Industry
Site - (future)
Remainder
Shoreline
Lake

← Glacial Sand Rd

1990

23 22

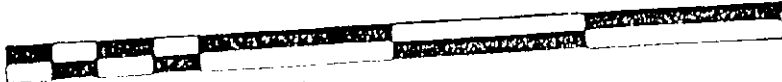
1997

Date - 4-1-98 Kimaterials, Inc.
Revised: 5-11-98

WINFIELD R-4
Lincoln Co.

SEC. 1, 2, 11, 12 TWP. 48 N RGE. 2E

MAP NO. 52 - 21 - 01



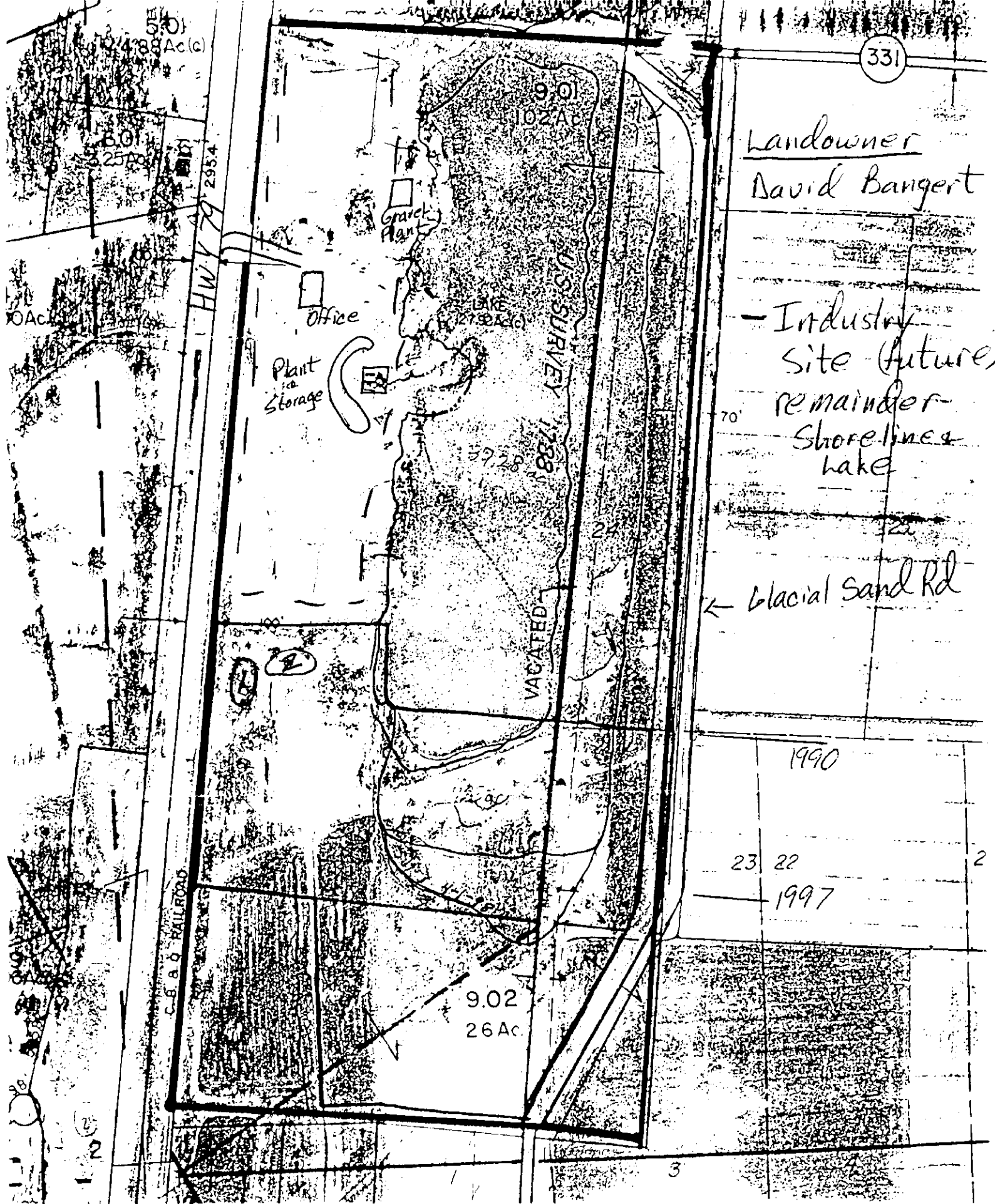
SCALE: 1" = 400'
DATE OF MAP: 1-1-93
DATE OF PHOTOGRAPHY: 1-1 1993
AERIAL PHOTO NO.: 10-40
PHOTOGRAMMETRY BY: ZSURDEX

- Property line
Permitted
Area

Lakes
Edge

① - Topsoil
② - Overburden

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MAY 12 1998
MISSOURI LAND
RECLAMATION COMMISSION



Landowner
David Bangert

- Industry
Site (future)
Remainder
Shoreline &
Lake

← Glacial Sand Rd

1990

1997

Date - 4-1-98 Kimaterials, Inc.

Revised: 5-11-98 WINFIELD R-4
Lincoln Co.

SEC. 1, 2, 11, 12 TWP. 48 N RGE. 2E

MAP NO 52 - 21 - 01



SCALE: 1" = 400'
DATE OF MAP: 1-1-93
DATE OF PHOTOGRAPHY: 1-1 1993
AERIAL PHOTO NO.: 10-40
PHOTOGRAMMETRY BY: 2SURDEX

- Property Line
- Permitted
Area

- Lakes
Edge

① - Topsoil

② - Overburden

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MAY 12 1998

MISSOURI LAND
RECLAMATION COMMISSION

RECEIVED
APR 06 1998

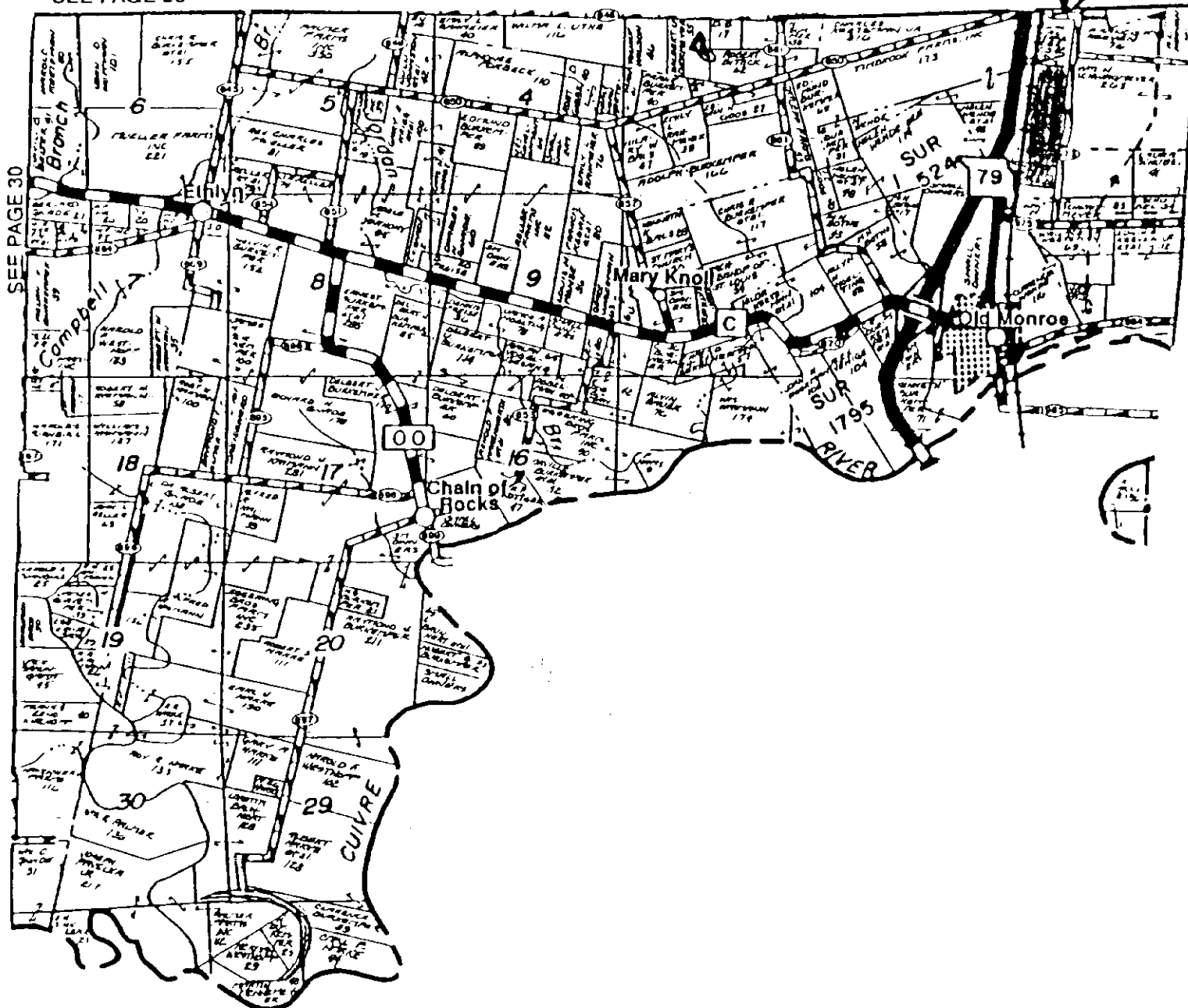
MISSOURI LAND
RECLAMATION COMMISSION

SUBJECT
PROPERTY

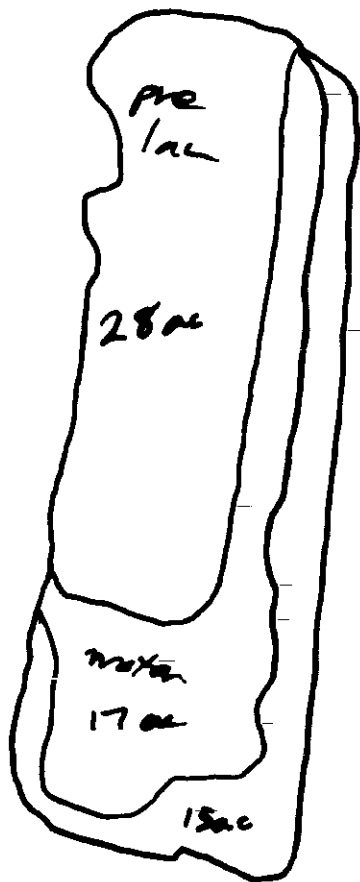
TOWNSHIP 48 • RANGE 2E

5-12-98

SEE PAGE 26



ST. CHARLES CO.



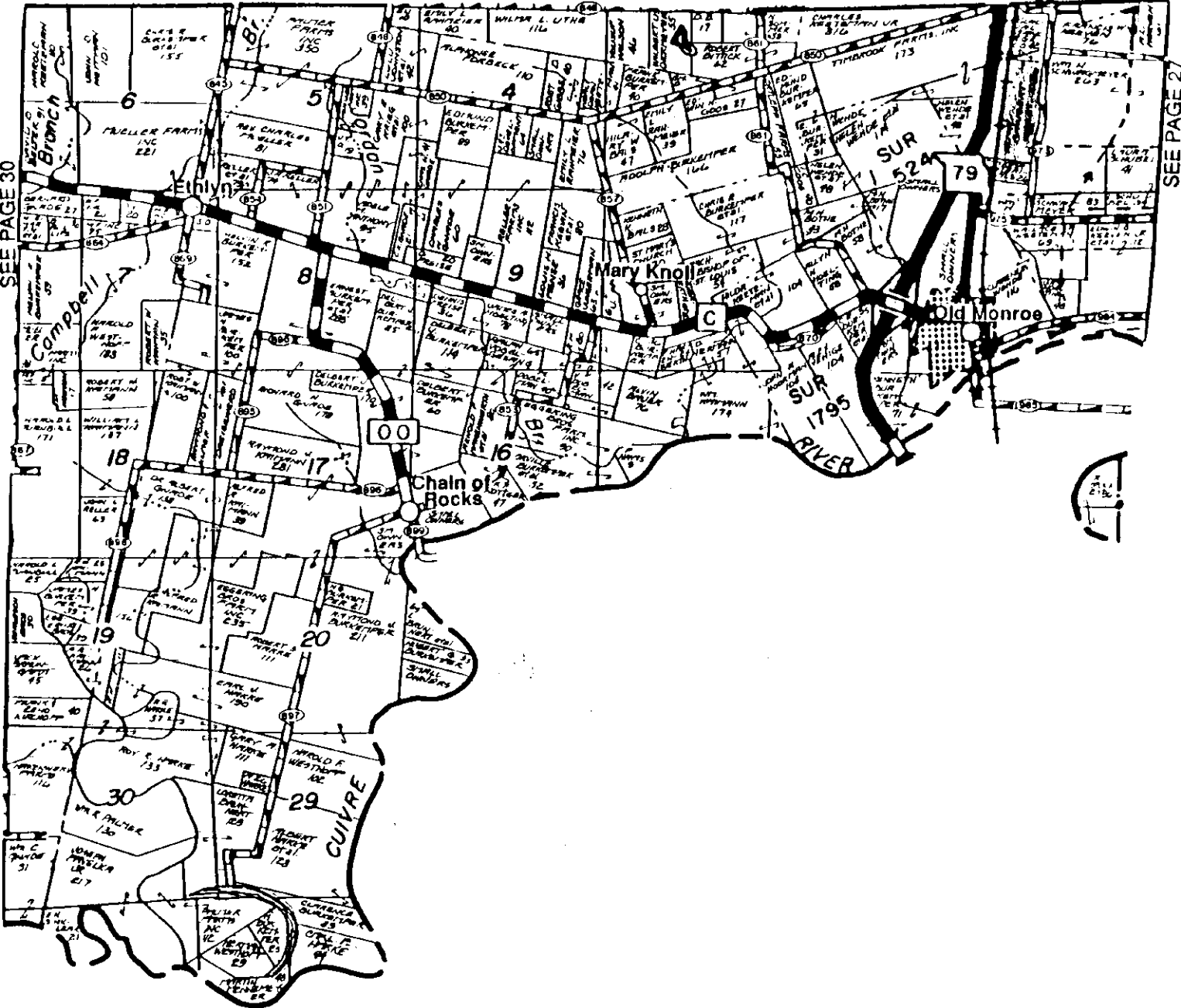
Kinrateria
1997 total disturbance
 $1'' = 660'$

TOWNSHIP 48 • RANGE 2E

SUBJECT
PROPERTY

5-12-92

SEE PAGE 26

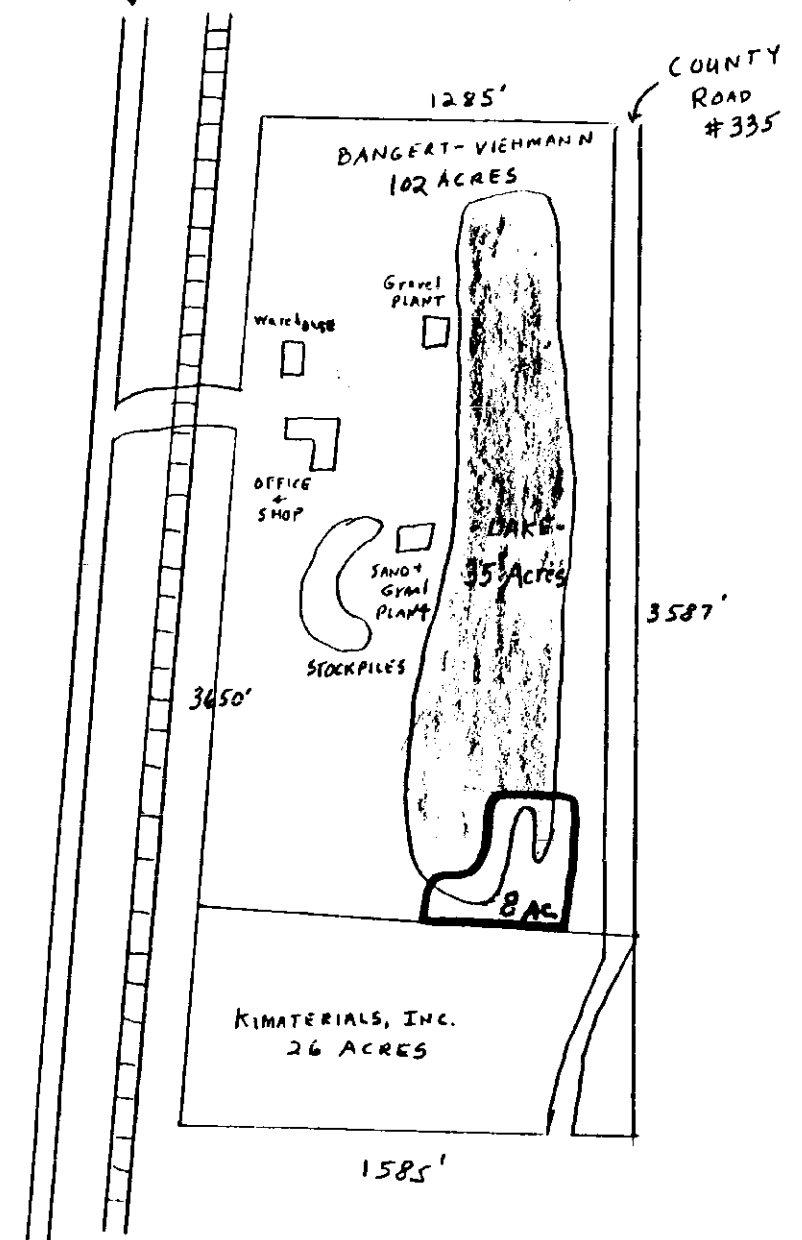


ST. CHARLES CO.

MISSOURI
HIGHWAY
79

BURLINGTON
NORTHERN
RAILWAY

COUNTY
ROAD
#335



NORTH

SITE # 1

LINCOLN COUNTY
SECTION ONE
TOWNSHIP 48 NORTH
RANGE 2 EAST

KIMATERIALS, INC
P.O. Box 235
OLD MONROE, MO 63309
Scale 1" = 660
5-14-92

U. S. DEPARTMENT OF AGRICULTURE
WILDLIFE CONSERVATION SERVICE

